

DELL™ POWERSVULT™ DL2000

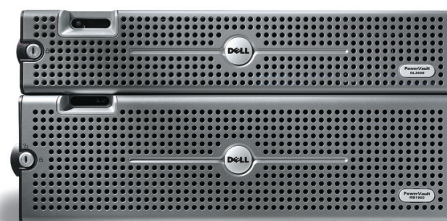
POWERED BY COMMVAULT



The industry's only integrated solution for faster disk-based backups and recoveries gets you up and running 4.5 times faster than configuring it yourself.

UP AND RUNNING UP TO 4.5X FASTER

Configuring homegrown backup-to-disk solutions can be difficult, time-consuming, prone to errors, and expensive. Dell has simplified the backup process by offering the industry's first and only integrated hardware, software, and services solution powered by CommVault® Simpana® software. This integrated solution is a cost-effective way to reduce total cost of ownership.



PowerVault™ DL2000 — Powered by CommVault® comes factory-installed with CommVault Simpana software, plus a unique wizard-driven setup and management utility. Integrated automated dynamic disk provisioning configures and sets up the disks for immediate use.

Set it up, configure storage, add more disks — it only takes a few clicks. PowerVault DL2000 solutions are fully tested and validated, sure to work together, and you can deploy them fast.

In fact, we've timed it: You can deploy PowerVault DL2000 — Powered by CommVault and start executing your first backup in just 27 minutes. That's 4.5 times faster than setting up and configuring the hardware and software pieces on your own.

Industry leaders Dell and CommVault co-developed this offering to get you up and running fast with a tested solution that offers easier management. It's an ideal way for any IT department to achieve fast, reliable backups and restores. It's disk-based backup simplified by Dell.

DISK-BASED BACKUP THAT'S 52% FASTER THAN BACKING UP TO TAPE WITH 77% FASTER RESTORE CAPABILITIES *

Managing tapes can be complex and time consuming. Backups to tape often exceed their backup window, and tape-based backups can fail due to media or handling issues. Disk-based backup with the PowerVault DL2000 — Powered by CommVault is up to 52% faster than tape, and restores are as much as 77% faster, with up to 19% greater reliability. And CommVault's Simpana software reduces backup windows even more than traditional backup-to-disk software. It takes advantage of disk's random read/write capability and writes data faster, in "chunks" rather than as large, sequential files. This means faster backups and restores — as much as 77% faster recovery times.

*Based on 2008 survey commissioned by CommVault, available at, dell.com/CommVault

BUILT-IN DATA DEDUPLICATION: REDUCES STORAGE REQUIREMENTS BY UP TO 95% **

The PowerVault DL2000 — Powered by CommVault has a built-in compression and deduplication capability that stores data segments only once, eliminating redundant data across consolidated backup sets. No longer are you limited to one or two full backup cycles on disk. Deduplication lets you economically keep weeks of complete recovery copies on a smaller disk footprint. You get optimal recovery performance while minimizing your storage investment and reducing your storage requirements by up to 20 times with deduplication.

**Data deduplication can reduce storage requirements by up to 20x compared to the same amount of tape, which in turn can reduce backup windows, increase restore times, and save money. Individual results will vary. See the CommVault data deduplication calculator at Dell.com/DL2000 to better estimate potential reductions based on various factors relevant to your storage environment.

The PowerVault DL2000 — Powered by CommVault is the first of Dell's TierDisk family of products, designed to provide cost-optimized solutions for secondary storage environments for data protection and data management.

BETTER THAN VTL

Virtual Tape Libraries (VTLs) are “point products” that can help fix backup and recovery bottlenecks in the short run. But they’re separate “boxes” that create silos of information and add management complexity. Virtual tapes have to be created, provisioned, and managed from a separate interface, and VTL products lack alerting and reporting within the backup solution. The PowerVault DL2000 is a native, disk-to-disk solution that is designed to eliminate the need for manual setup and management. It automatically and dynamically provisions disk, invisibly to the user, and gives you proactive monitoring, alerts, and reporting.

REDUCE OFFSITE TAPE STORAGE BY UP TO 90 %

The PowerVault DL2000 is available with the Dell PowerVault TL2000, TL4000, or ML6000 tape library integrated into the full solution. Take advantage of deduplication to disk for rapid recovery, then transfer deduplicated data to reduce the amount of offsite tape media..

REMOTE MANAGEMENT, MONITORING, AND REPORTING

Your data center administrators can use the PowerVault DL2000's integrated management console to set backup tasks and policies and do system monitoring and maintenance from their central location. This makes the PowerVault DL2000 the ideal backup solution for remote offices that don't have IT experts on-site. The PowerVault DL2000 – Powered by CommVault features built-in robust alerting and reporting so you can quickly detect and determine problems before they slow down operations.

DISTRIBUTED PROTECTION OF DATA CENTERS AND BRANCH OFFICES

Pairing two PowerVault DL2000 devices across geographically distributed sites helps you replicate your deduplicated backups efficiently. Managed from a central site, each remote PowerVault DL2000 delivers rapid recovery at the branch office where it's located, and also lets you protect your data with a replica copy at your DR site that you can use for restores or tape creation.

CONTINUOUS PROTECTION OF DATA

The PowerVault DL2000 with CommVault features Continuous Data Replicator (CDR) agents that are designed to deliver continuous protection for your servers with critical recovery objectives. You can use these CDR agents to provide secure, byte-level file, Exchange, SQL, or Oracle® data for consolidated backups from your production servers to a centralized PowerVault DL2000.

SINGLE-STEP GRANULAR RECOVERY

Efforts to restore lost data can range in scope from a full system recovery to recovering an individual e-mail. The PowerVault DL2000 – Powered by CommVault provides the fast and easy recovery of individual objects with single-step, individual object recovery.

SYNTHETIC FULL BACKUPS REDUCE PERFORMANCE IMPACT ON APPLICATIONS

Frequent full backups can take a toll on server I/O and can slow down user applications. The PowerVault DL2000 — Powered by CommVault removes that performance burden by continually backing up smaller, incremental changes from production servers and merging them with unchanged data to create a synthetic full backup copy. Patented Smart Client technology reduces the incremental backup time by tracking all of the files that have changed.

FILE AND E-MAIL ARCHIVAL AGENTS REDUCE PRIMARY STORAGE USE

The PowerVault DL2000 – Powered by CommVault's File, E-mail and SharePoint Archiver software moves infrequently accessed data from production servers and archives it. Your end users and applications retain normal access to the archived items at all times. By archiving your server data, you can achieve smaller backups and faster recoveries.

LIFECYCLE STORAGE SOLUTION SUPPORT

Choosing the right backup solution is an important step in keeping your critical information safe. Storage Consulting and Deployment from Dell can help you implement, manage, and optimize storage infrastructure as well as backup and recovery in a cost-effective manner, helping to reduce the risk associated with ineffective data management and reduce complexity while improving information availability. Having the right support is also important. Dell ProSupport for IT provides businesses of all sizes with flexible, reliable, and easier support solutions.

The Dell ProSupport for IT service model was designed for IT professionals like you. It provides:

- 7x24 direct access to Dell Expert Centers
- Fast-track dispatch for Dell-certified technicians
- Escalation management through Dell's Global Command Centers

The globally consistent, customer-driven Dell ProSupport for IT portfolio includes proactive support options that align to how you use technology. These enhanced offerings can help you protect your investment, reduce risk, manage complexity, enhance productivity, and guard your sensitive data.

POWERVRVAULT DL2000 — POWERED BY COMMVAULT® SPECIFICATIONS

PowerVault DL2000 — Powered by CommVault is available in both a Standard Edition and an Advanced Deduplication Edition. Each edition comes with five File System Agents. Additional optional agents are available.

- Standard Edition: Includes CommServe Master Server, MediaAgent, and 5-File System Agents
- Advanced Deduplication Edition: Includes CommServe Master Server, MediaAgent, 5-File System Agents, and 3TB of Block-based Deduplication to disk

ADDITIONAL AVAILABLE LICENSES:

- File System Agent: Protects the file system and system state for servers
- Application Agent: Delivers granular protection for Exchange, Lotus Notes, GroupWise Oracle, SQL, SharePoint, Office Communications Server, MySQL or Active Directory
- Universal Virtual Server Agent: Protects unlimited virtual machines for VMware or Hyper-V environments
- Continuous Data Replication: Provides byte-level, asynchronous host replication (one agent needed per server replicating to the PowerVault DL2000)
- File Archiver: Removes infrequently accessed Windows, Linux, or Netware files to reduce primary storage space. Stubs are left behind that recall files when needed.
- E-mail Archiver: Removes infrequently accessed e-mail messages (including attachments) to reduce primary storage space. Stubs are left behind that recall e-mails or attachments when needed.

HARDWARE: DL2000	
Value Series	1 processor (Quad-Core Intel® Xeon® E5410, 2x6MB Cache, 2.33GHz, 1333MHz FSB) and 8GB RAM
Performance Optimized	2 processor (Quad-Core Intel® Xeon® E5410, 2x6MB Cache, 2.33GHz, 1333MHz FSB), 16GB RAM and DRAC (Dell Remote Access Card)
Internal Storage	2 x 250GB, 7200 RPM, SATA II drives in hardware RAID 1 configuration
External Storage Connectivity	Available through 1 or 2 PERC 6/E
Tape Connectivity	SAS 5/E HBA; U320 SCSI HBA; Fiber Channel HBAs: Emulex or QLogic HBAs
Networking	Dual-embedded Broadcom® NetXtreme II™ 5708 Gigabit6 Ethernet NIC with fail-over and load balancing.
Operating System	Windows® Server 2008, Standard, x64
Systems Management	OpenManage™, ITA and Dell Management Console
Remote Management	DRAC
Physical Dimensions	2U rack mountable chassis 29.31" (74.4cm) D x 17.5" (44.43cm) W x 3.4" (8.64cm) H with bezel attached Rack weight 50.71 lbs. (23 kg), maximum configuration
Ports	Rear: 2 x USB 2.0, 1 x serial connector, 1 x video connector, 1 x RJ45 for DRAC 5/i connector
POWERSHIELD MD1000 EXTERNAL STORAGE FEATURES INCLUDED WITH THE POWERSHIELD DL2000	
Hard Drives	Available in only eight (8) or fifteen (15) 1-inch x 3.5-inch SATA II hot-pluggable 3.0 Gbps hard drives
Drives Available	7200 RPM SATA II: 500GB, 750GB or 1TB; 5400 RPM Energy Efficient SATA II: 1TB
Maximum Scalability	Up to 6 MD1000 shelves connected to one dual-ported PERC card; Up to a total of 12 MD1000s shelves using two PERC cards in a DL2000
Maximum Usable Capacity	Up to 144TB of usable space (180TB of raw disks) 32 GB
Physical	Height: 13.11 cm (5.16") H x 44.63 cm (17.57") W x 48.01 cm (18.9") D Weight: 35.37 kg (78 lbs.) (maximum configuration)
Power Supplies	Wattage: 488W maximum continuous; 550W peak Heat dissipation: 200W Voltage: 100-240V rated (actual 90-264V) Frequency: 47-63Hz Amperage: 7.2A at 100V, 3.6A at 200V

SIMPLIFY YOUR NETWORK AT DELL.COM/COM/DL2000

